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# SPIRE 4.1

## Illustrated Parts List



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**Revision: G**

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## Notice

The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

This Product is warranted only as provided in Cornelius' Commercial Warranty applicable to this Product and is subject to all of the restrictions and limitations contained in the Commercial Warranty.

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## Contact Information:

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# CLADDING SYSTEM

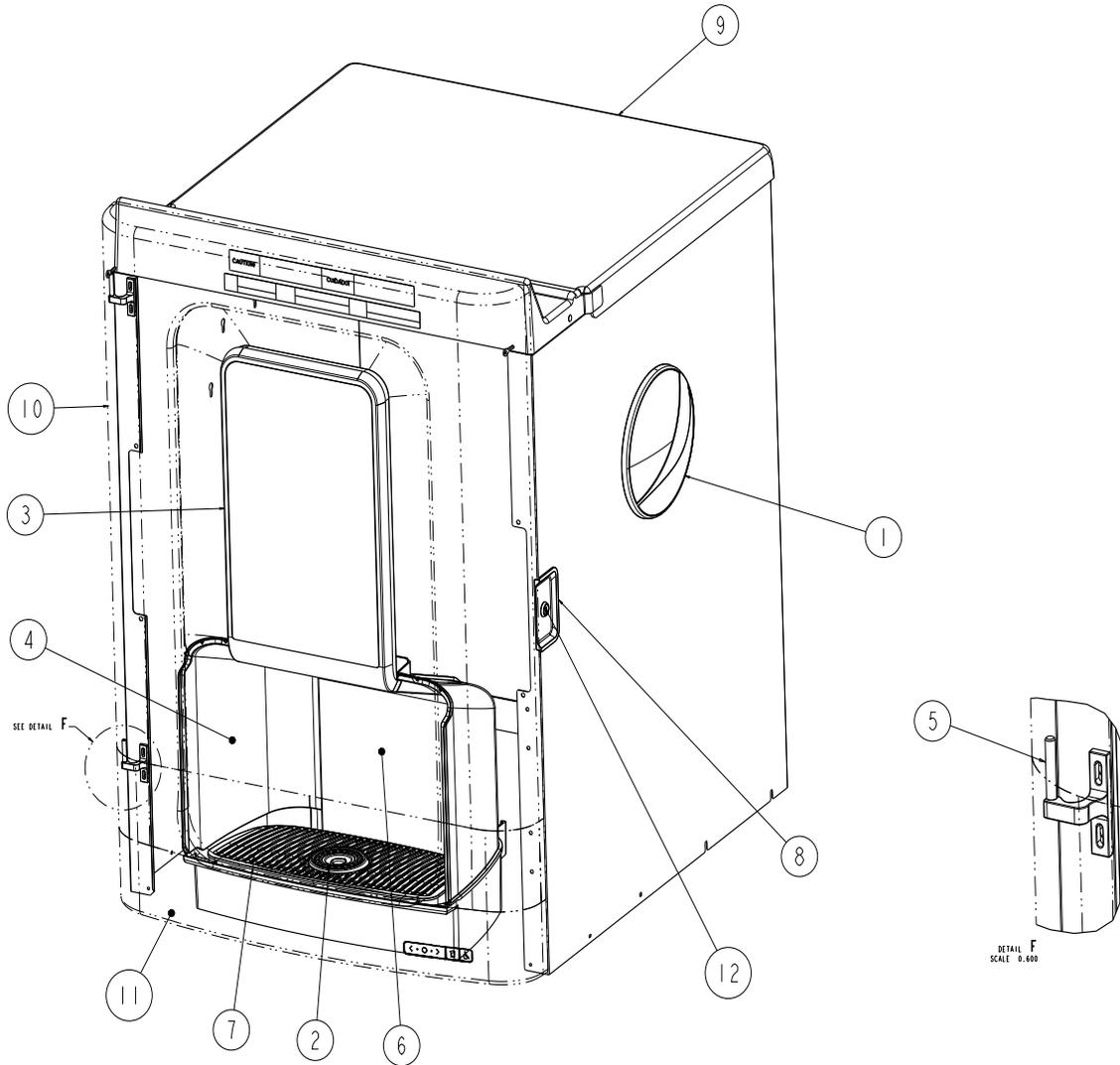


Figure 1. - Cladding System



**Table 1: Cladding System**

| Item No | Part No     | Description  |
|---------|-------------|--|
| 1       | 07-1-003361 | MEDALLION PEPSI GLOBE<br>8.84" DI                                      |
| 2       | 62005778    | PEDESTAL CUP REST PEPSI<br>TWR 2.0                                     |
| 3       | 620069892   | DISPLAY TOUCHSCREEN<br>15.6" PROMATE                                   |
|         | 620069623   | DISPLAY TCHSCRN ASY<br>15.6" KRISTEL SPIRE 3.1/<br>4.1(230V UNIT ONLY) |
| 4       | 620065658   | ENCLAVE SPIRE 3.1  |
| 5       | 620065811   | HINGE DOOR MALE SPIRE<br>3.1   |
| 6       | 620065912   | PANEL SPLASH SPIRE 3.1   |

**Table 1: Cladding System (Continued)**

| Item No              | Part No       | Description                                |
|----------------------|---------------|--|
| 7                    | 620066256     | SLIDE ICE BLACK SPIRE 3.1                  |
| 8                    | 620066547     | POCKET DOOR SPIRE 3.1                      |
| 9                    | 629097709     | KIT 30" UNVRSL IM ADAPT<br>W/CVR-SPIRE 4.1 |
| 10                   | 620066818     | DOOR SPIRE 4.1                             |
| 11                   | 629097704     | KIT - DRIPTRAY REPLACE-<br>MENT SPIRE 4.1  |
| 12                   | 720703901     | LOCK & KEY DOOR QST                        |
| *                    | 720703902     | KEY DOOR REPLACEMENT                       |
| *                    | 629097689     | KIT ANTI-TIP BRKTS                         |
| *                    | 620057849-212 | CABLE DISPLAY MINI EDP                     |
| <b>* = Not Shown</b> |               |  |

# DOOR SYSTEM

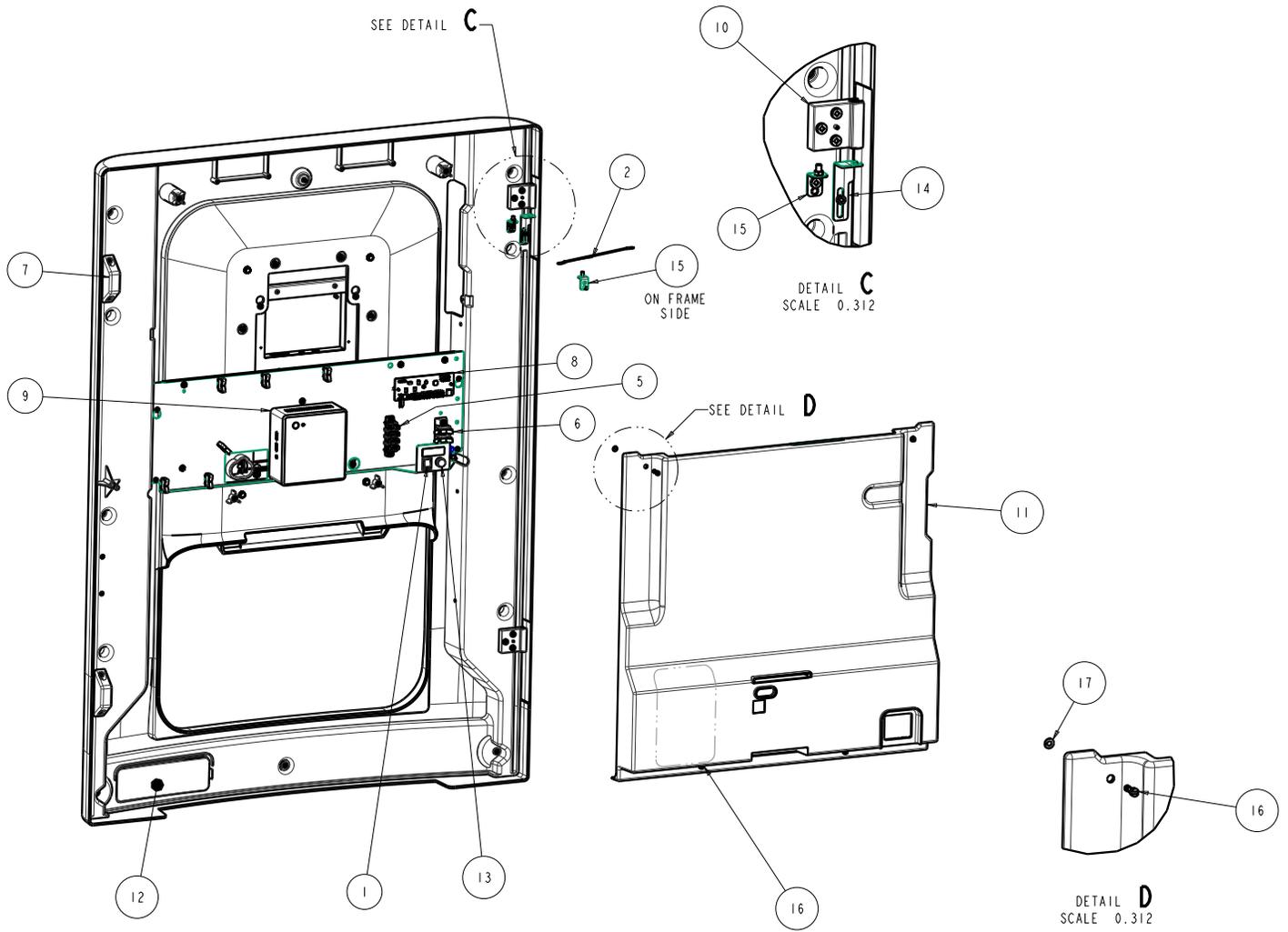


Figure 2. - Door System



**Table 2: Door System**

| Item No | Part No       | Description                               |
|---------|---------------|---|
| 1       | 45432         | SWITCH ROCKER SEALED                      |
| 2       | 620051892     | CATCH LANYARD SS 6"                       |
| 3       | 620057647-P13 | BOARD ADA KEYPAD FOR MIDNIGHT CLADDING    |
| 4       | 620057826-006 | CABLE USB TYPE A TO MOLEX 51021-0400 10FT |
| 5       | 620059150     | BLOCK TERMINAL 4 POLE                     |
| 6       | 620059150-002 | BLOCK TERMINAL FASTON 2-CIRCUIT 300V      |
| 7       | 620062937     | CATCH MAGNETIC SPIRE                      |
| 8       | 620064016     | BOARD LX3, PCBA                           |
| 9       | 620065239     | COMPUTER NUC INTEL UNIFIED SPIRE 3.1/4.1  |
| 10      | 620065812     | HINGE DOOR FEMALE SPIRE 3.1               |
| 11      | 620065813     | COVER DOOR SERVICE SPIRE 3.1              |
| 12      | 620065862     | COVER ADA SPIRE 3.1                       |

**Table 2: Door System (Continued)**

| Item No | Part No       | Description                       |
|---------|---------------|-----------------------------------|
| 13      | 620065927     | SWITCH PUSH BTTN MOMENTARY BLUE   |
| 14      | 620065937     | BRKT DOOR ANTI-REMOVAL SPIRE 3.1  |
| 15      | 620066519     | BRKT DOOR STRAP SPIRE 3.1         |
| 16      | 620066824     | SCREW- CAPTIVE #8-32 S.S. FISL    |
| 17      | 620066825     | RETAINER CAPTIVE SCREW S.S. #8-32 |
| *       | 620057851-007 | ETHERNET CABLE 2FT                |
| *       | 620057861-325 | HARN POWER BARREL CONN DISPLAY    |
| *       | 620059679-007 | CABLE MODEM POWER                 |
| *       | 620064253     | HARN POWER LX3                    |
| *       | 620067274     | CABLE NUC POWER                   |
| *       | 620057826-006 | HARN USB ADA TO NUC               |
| *       | 620057647-P14 | KIT ADA BOARD SERVICE             |

\* = Not Shown

# BEVERAGE VALVE & NOZZLE SYSTEMS

## BEVERAGE VALVE & NOZZLE SYSTEMS

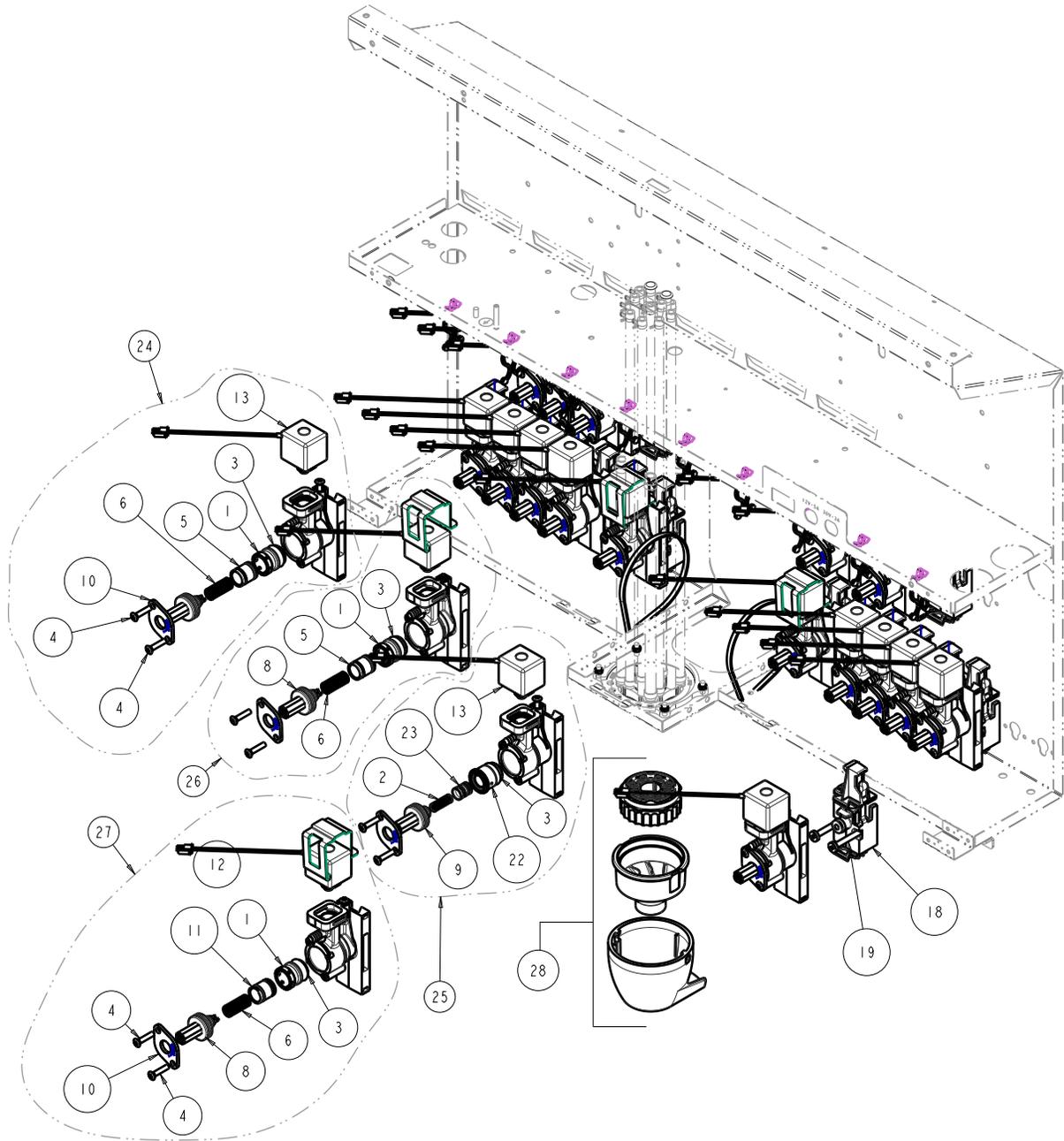


Figure 3. - Beverage Valve & Nozzle Systems



**Table 3: Beverage Door & Nozzle Systems**

| Item No | Part No   | Description                          |
|---------|-----------|--------------------------------------|
| 1       | 1934      | CYLINDER, UF-1 FLOW CONTROL, CERAMIC |
| 2       | 48258005  | SPRING SYRUP SLJ                     |
| 3       | 317816000 | O-RING 676ID 070CS 70DU E16          |
| 4       | 560001108 | SCREW TT 08-16 OVPH 26 SSPA          |
| 5       | 560006005 | PISTON SYR REG CRMIC 2-4 OZ/SEC      |
| 6       | 560006176 | SPRING FLOW-CNTL UFB 2-4 OZ          |
| 7       | 560007207 | SCW ADJ UF-1 FLOW ASSY               |
| 8       | 560007207 | 1 SCW ADJ FLOW ASSY CRUSH RIB        |
| 9       | 560007207 | 2 SCW ADJ FLOW ASSY O-RING           |
| 10      | 620046317 | RETAINER FLOW-CNTL BODY GRAPPA       |
| 11      | 620052858 | PISTON WTR REG CRMIC SFV1            |
| 12      | 620058279 | SOLENOID ASY 24V MFV WATER           |
| 13      | 620058280 | SOLENOID ASY 24V MFV SYRUP           |
| 14      | NA        |                                      |
| 15      | NA        |                                      |
| 16      | NA        |                                      |
| 17      | NA        |                                      |
| 18      | 620518139 | BLOCK BACK MOUNT ASY DUAL BULLFROG   |

**Table 3: Beverage Door & Nozzle Systems (Continued)**

| Item No | Part No       | Description  |
|---------|---------------|--|
| 19      | 620700601     | SCREW TF SM 10-16 RDPH 40 SS                           |
| 20      | 620709632     | CLIP RETAINER GRAPPA SOLENOID                          |
| 21      | 620715715     | BODY VALVE GRAPPA BLK UT408                            |
| 22      | 740002075     | CYLINDER, FLOW CONTROL, 30:1 SYRUP, UF FAMILY, CERAMIC |
| 23      | 740002076     | PISTON, FLOW CONTROL, 30:1 SYRUP, UF FAMILY, CERAMIC   |
| 24      | 620065647S    | VALVE SYRUP ASY MFV LITE                               |
| 25      | 620065648F    | VALVE FLAVR ASY MFV LITE                               |
| 26      | 620066481W090 | VALVE WATER ASY 90 MFV LITE                            |
| 27      | 620066481W210 | VALVE WATER ASY 210 MFV LITE                           |
| 28      | 629097705     | KIT GEN 5 NOZZLE TITANIUM SERVICE SPIRE                |
| *       | 620711131     | SEAL ARMATURE WATER VALVE                              |
| *       | 620711132     | SEAL ARMATURE SYRUP/FLAVOR VALVE                       |
| *       | 321471000     | LUBE O-RING DOW 111 (SEE NOTE BELOW)                   |
| *       | 629097745     | KIT VAL CONV TO 14+6 SPIRE 4.1                         |
| *       | 620070434     | NOZZLE ASSY BLK TUBG 4.1 SPIRE SERVICE KIT             |

\* = Not Shown

**IMPORTANT !**

**Only Non-Petroleum based lubricants should be used on o-rings. Failure to use the correct lubricants can cause O-ring failure. Reference Cornelius Tech Tip TT-20170103.**

# ELECTRICAL SYSTEM

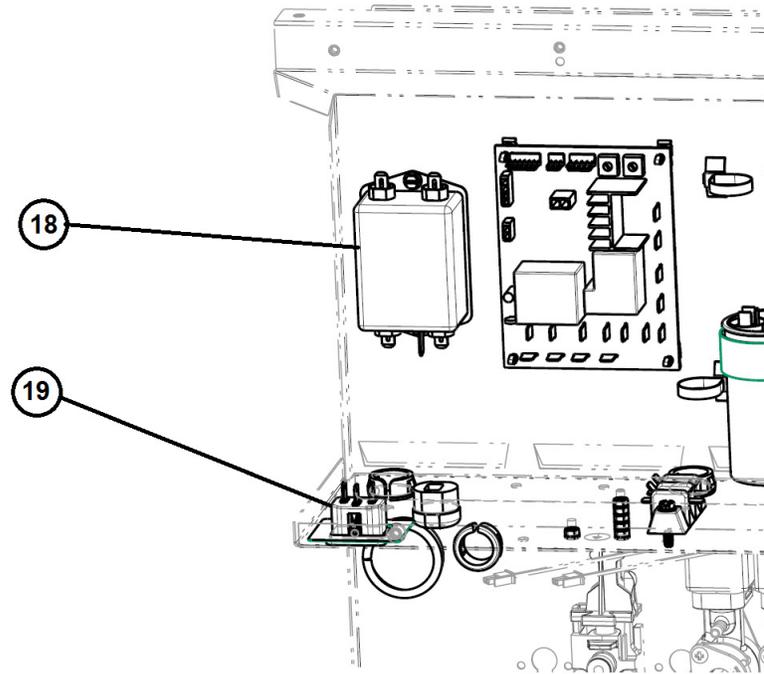


Figure 4.- Electrical System

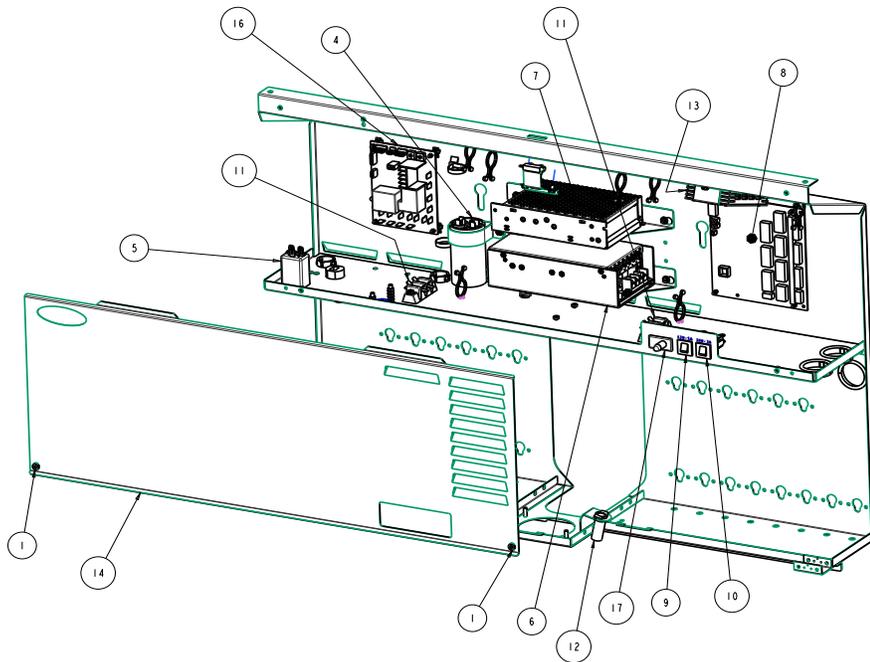


Figure 5.- Electrical System



**Table 4: Electrical System**

| Item No | Part No       | Description                                 |
|---------|---------------|---|
| 1       | 70171         | SCREW MA 08-32 TRPH 12 SS                   |
| 2       | 313802000     | BUSHING SNAP 875H 6711D OCB875              |
| 3       | 325925000     | SUPPORT PC BOARD 3/8                        |
| 4       | 560002379     | CAPAC RUN 20 MFD 230V 50HZ                  |
| 5       | 620049958     | CONN POWER ENTRY MODULE FILTERED (115V)     |
| 6       | 620057649-015 | PWR SUPPLY 30VDC 350W                       |
| 7       | 620057649-019 | POWER SUPPLY 100W 12VDC                     |
| 8       | 620057808-201 | BOARD MFV PCBA WITH ON/OFF RELAY FOR VALVES |
| 9       | 620058545-002 | BREAKER 5A CIRCUIT BREAKER                  |
| 10      | 620058545-003 | BREAKER 3A CIRCUIT BREAKER                  |
| 11      | 620059150-002 | BLOCK TERMINAL FASTON 2-CIRCUIT 300V        |
| 12      | 620066264     | GUIDE LIGHT CUP LED SPIRE 3.1               |
| 13      | 620066493     | HUB, USB 2.0, 4-1 HUB                       |

**Table 4: Electrical System (Continued)**

| Item No       | Part No       | Description   |
|---------------|---------------|---|
| 14            | 620066807     | COVER ELEC BOX SPIRE 4.1                              |
| 16            | 620314825-100 | BOARD AGITATOR PCB W/SAFETY                           |
| 17            | 720500713     | SWITCH CUTOUT 10 A MOM E6900A                         |
| 18            | 4345          | RECEPTACLE PUSHIN 125/230V CE (230V ONLY)             |
| 19            | 620307301-001 | FILTER RFI POWER LINE CE 10 AMP DUAL STAGE(230V ONLY) |
| *             | 30794         | HEATER MOTOR 115V                                     |
| *             | 32826         | HEATER MOTOR 220V 50/60                               |
| *             | 620049959-013 | CORD POWER 115V USA (SEE ADDITIONAL CORDS BELOW)      |
| *             | 620057864-001 | HARN SPOTLIGHT LED CUP PEDESTAL                       |
| *             | 620058733-003 | FILTER FERRITE SNAP-ON 240 OHM @ 100MHZ(230V ONLY)    |
| *             | 620069617     | HARN ASSY VARISTOR MODULE 240V(230V ONLY)             |
| * = Not Shown |               |   |

| Power Cord: 620049959-XXX |                       |
|---------------------------|-----------------------|
| Suffix                    | Country               |
| - 002                     | JAPAN                 |
| - 003                     | GERMANY               |
| - 004                     | CHINA                 |
| - 005                     | AUSTRALIA             |
| - 006                     | INDIA                 |
| - 007                     | BRAZIL                |
| - 008                     | U.K, DUBAI, SINGAPORE |
| - 009                     | ITALY, CHILE          |
| - 012                     | KOREA                 |
| - 013'                    | USA                   |





**Table 5: Agitation & Dispense**

| Item No. | Part No   | Description                        |
|----------|-----------|------------------------------------|
| 1        | 15087     | RETAINER AGITATOR                  |
| 2        | 52876     | GASKET MOTOR SHAFT                 |
| 3        | 70066     | WSHR-FT-A025-0265-0750-055-S8-XX   |
| 4        | 186294000 | WSHR-SL-A025-0262-0487-078-S8-XX   |
| 5        | 620042770 | AGITATOR DISK                      |
| 6        | 620048706 | GATE ICE IDC                       |
| 7        | 620051502 | CLEVIS PIN .25 DIA X 2.75 LONG     |
| 8        | 620065218 | AGITATOR ARM REMOVABLE IDC2XX      |
| 9        | 620065220 | AGITATOR ASY 2-PC IDC2XX           |
| 10       | 620065643 | ICE LEVER SPIRE                    |
| 11       | 620067459 | COVER HOPPER FOAM IDC255           |
| 12       | 620314527 | SENSOR POSITION ICE CHUTE IDC NGF  |
| 13       | 620314913 | MOTOR GEAR 1/10 HP 110V 50HZ 6 RPM |
| 13       | 620717110 | GEAR MOTOR IDC2XX 230 VOLT 50/60   |

**Table 5: Agitation & Dispense (Continued)**

| Item No.      | Part No               | Description                           |
|---------------|-----------------------|---------------------------------------|
| 13            | 620314923             | SERVICE MOTOR 115V (W/O GEAR BOX)     |
| 13            | CALL CUSTOMER SERVICE | SERVICE MOTOR 230V (W/O GEAR BOX)     |
| 14            | 620518535             | CHUTE ICE LOWER IDC                   |
| 15            | 620067748             | CHUTE ICE MECH ASY SPIRE 3.1/4.1/5.0  |
| 16            | 620518908             | PLATE ICE GATE RESTRICTOR IDC         |
| 17            | 620709132             | NUT- HEX 1/4-20 SS NYLOCK             |
| 18            | 620709346             | LEVER ICE CHUTE BRACKET NGF/IDC/CF/FF |
| 19            | 620709432             | PIN- HAIRPIN COTTER 18-8SS IDC        |
| 20            | 620710129             | GASKET ICE CHUTE IDC LOW DURO         |
| 21            | 620711105             | SEAL GEARBOX SHAFT                    |
| 22            | 620720590             | SCREW- 1/4-20 SHCS SELF-LOCKING 32 SS |
| *             | 30794                 | HEATER MOTOR 115V                     |
| *             | 32826                 | HEATER MOTOR 220V 50/60               |
| * = Not Shown |                       |                                       |

# COLD PLATE & CARBONATOR SYSTEMS

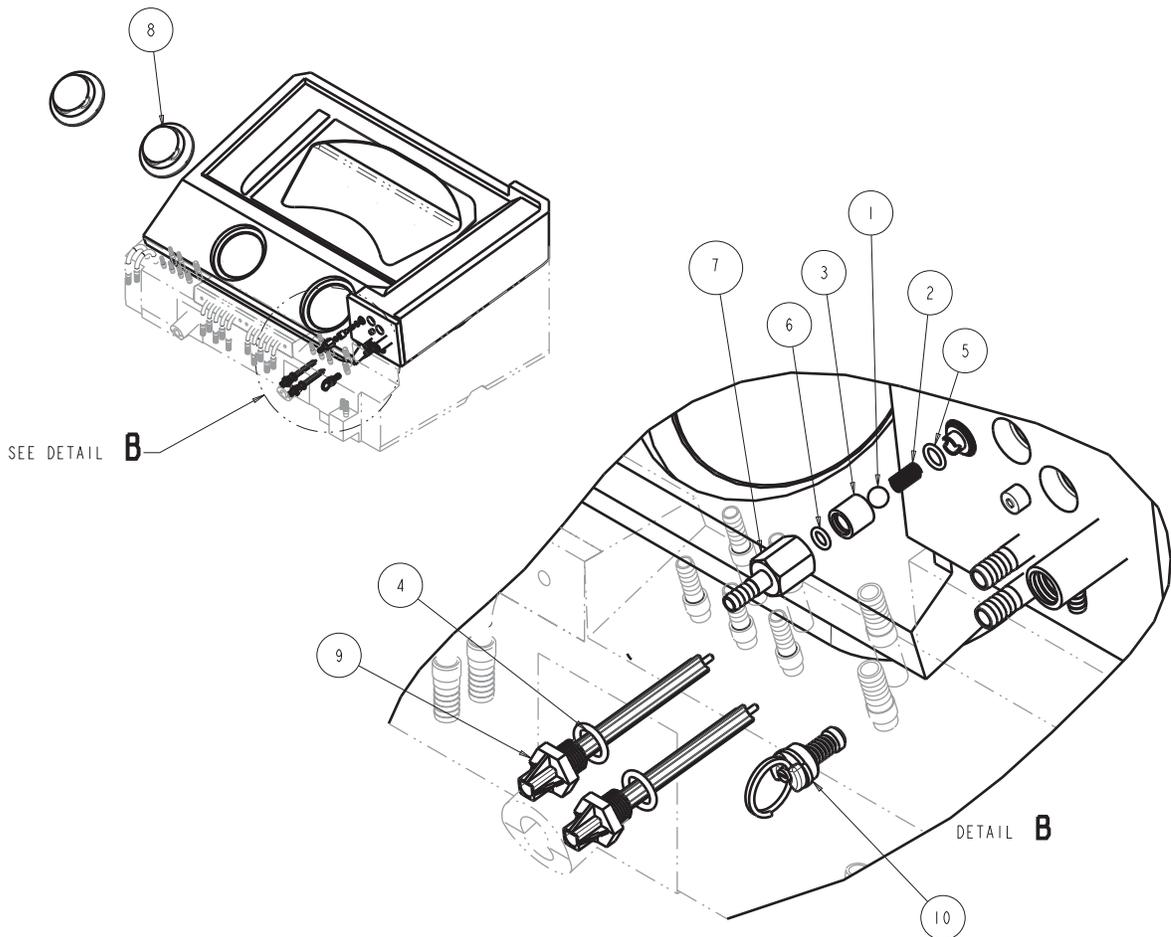


Figure 7. - Cold Plate & Carbonator Systems

Table 6: Cold Plate & Carbonator Systems

| Item No | Part No   | Description                 |
|---------|-----------|-----------------------------|
| 1       | 64560     | BALL .3125 SS (CHECK VALVE) |
| 2       | 64678     | SPRING                      |
| 3       | 64686     | SLEEVE SS CHK VLV           |
| 4       | 31525007  | O-RING 488ID 103CS 60DU     |
| 5       | 150058000 | O-RING 301ID 070CS 70DU     |

Table 6: Cold Plate & Carbonator Systems (Continued)

| Item No | Part No   | Description              |
|---------|-----------|--------------------------|
| 6       | 317015000 | O-RING 239ID 070CS 70DU  |
| 7       | 770000743 | FITG- CHK VLV W/ 1/4 BRB |
| 8       | 620516645 | COVER COLDPLATE ACCESS   |
| 9       | 620607108 | PROBE LEVEL CONTROL IDC  |
| 10      | 630001122 | VALVE RELIEF ASY BLACK   |

# CARBONATOR PUMP SYSTEM

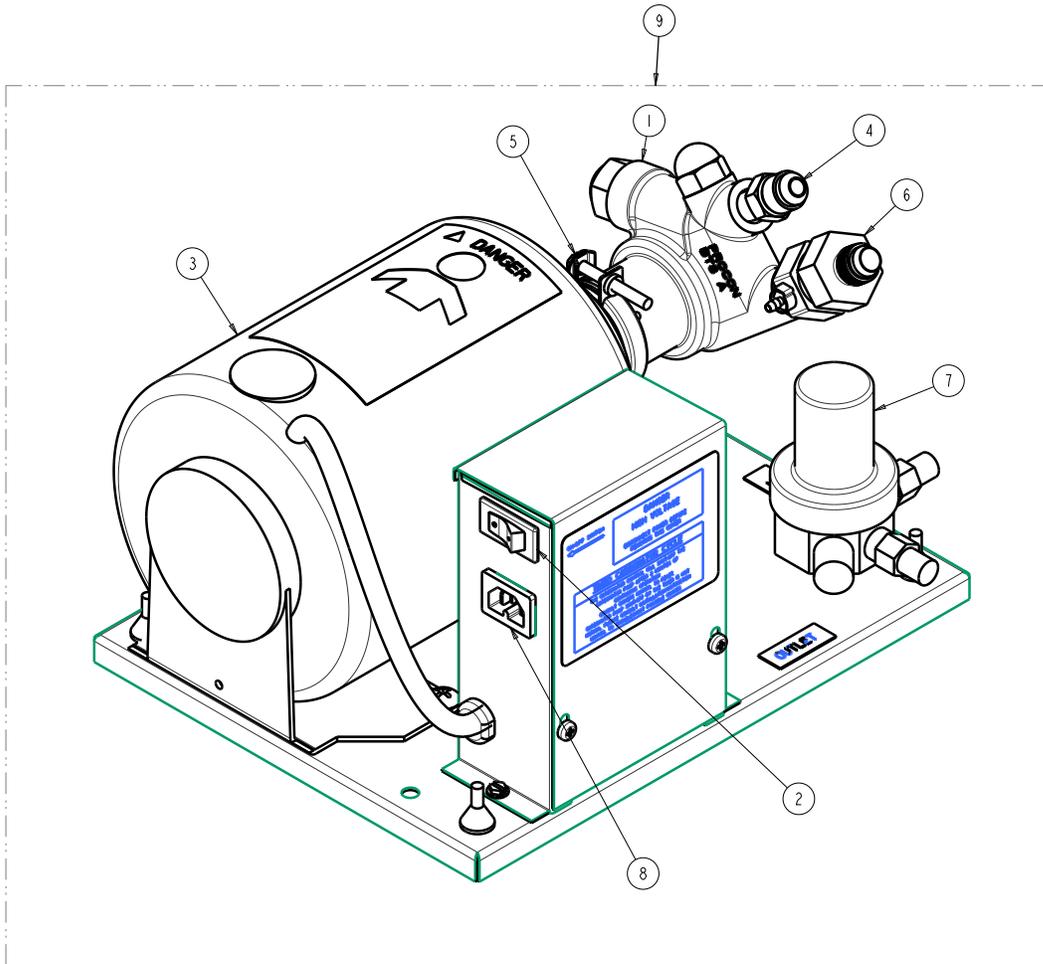


Figure 8. - Carbonator Pump Systems

Table 7: Carbonator Pump System

| Item No | Part No   | Description                    |
|---------|-----------|--------------------------------|
| 1       | 60170LL   | PUMP 125GPH W/S TRN PROCON LOW |
| 2       | 397250003 | SWITCH ROCKER 20A SNAP-IN      |
| 3       | 60030058  | MOTOR PUMP 1/3 120/60 1725RPM  |
| 3       | 71860673  | MOTOR PUMP 1/3 120/60 1725RPM  |
| 4       | 111337000 | FITG STGHT 3/8MPT X 3/8 MF BR  |
| 5       | 187483000 | CLAMP V 2"D PUMP&MOTOR         |

Table 7: Carbonator Pump System (Continued)

| Item No | Part No   | Description                       |
|---------|-----------|-----------------------------------|
| 6       | 620608773 | VALVE CHK VENTED 3/8 MPT 5/8-16   |
| 7       | 620709802 | REG PRESSURE 75PSI NON-ADJUSTABLE |
| 8       | 620316456 | CORD POWER PUMP/MTR               |
| 9       | 620408124 | PUMP & MOTOR ASY 115 50/60        |
|         | 620408153 | PUMP & MOTOR ASY 230 50/60        |





